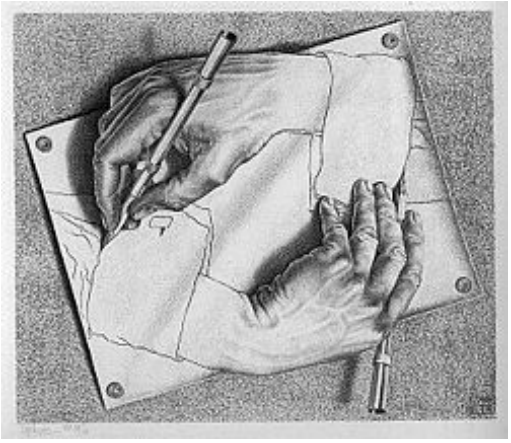
ARCH 363/663 Architectural Hand Drawing Workshop

Syllabus - 11 January 2016

Professor Wm. T. Cannady, FAIA
Tuesday-Thursday - 9:25 AM to 10:40 AM - 3 hour credit
AH 210
Class limited to 10 students

Bring newsprint pad & pen and soft pencil & black ink pen to 1st class meeting



Seeing

The objective of this workshop is to develop improved visualization abilities, i.e., formation of mental visual images and transformation of those images into drawing skills. Learning how to draw better begins with learning how to see clearer. Students will practice and develop a series of drawing methods and techniques in the context of the architectural design process, i.e., practices that work in solving design problems. Emphasis will be on the development of free-hand drawing and drafting skills that enhance the ability of the designer in communicating conceptual ideas, especially the role of working design experiments on overlays of tracing paper. Exercises use sketching as a method of improving the way one sees things and enhancing one's thinking in graphic terms.

Proposing

Pedagogically, freehand sketching exercises are intended to aid students in 'loosening-up"; while the courtyard house project is based on the student increasingly being driven to "tightening-up" the design and drawings. One is freedom oriented, the other discipline driven. Each class will delve into both modes of thinking and drawing.

Acting

The course will consist of a combination of lectures/demonstrations, in-class drawing exercises, and out-of-class assignments. A sketchbook (at the end of the semester) is required. Attendance is mandatory.

Relevancy

As digital drawing increases in importance in both practice and the academy the ability to freehand sketch and draw become a strong fundamental tool of conceptual design thinking and communication.

Requirements

Exercises and Assignments listed below

A semester long design project - emulate Mies van der Rohe – using overlay tracing studies as design tools-produce floor plan, building cross section, principal elevation and one-point perspective of living room and two-point perspective of exterior with free-hand and drafted line drawings. This project is due April 21. The class will visit the home of Prof. Anderson Todd's Miesian courtyard house near the campus

Also, semester-long exercise-Draw 81/2" x 11" sketches in your sketch-book of five buildings on the ice campus. These sketches are due Mar 29th. Ten quick sketches from books in Reserve Reading at Fondren Library – Bring sketches done while looking at these books (see list of books at the end of the syllabus). Sketches are due at the Mid Term recess Mar 29th.

Schedule

Jan 12: *Introduction* & *Exercise1*- Draw a chair with quick sketches including contour drawing. Limit each sketch to 5 - 10 minutes each.

Jan 12: *Assignment 1 -Sketch of your own room*

Jan 14: *Exercise 2* – Sketch the most interesting architectural detail in Anderson Hall

Jan 14: *Assignment 2* –Sketch a one-point perspective of one of the hallways in Anderson Hall.

Jan 19: *Exercise 3* – Sketch a one-point perspective of Fondren Library's arcade

Jan 19: *Assignment 3* – Draw a hand drafted one-point perspective based on your Fondren Library arcade sketch.

Continue - *Select 5-24' x 24' contiguous squares from the eight grids in the site plan provided to you Bring a hand drawn preliminary 1/8" floor plan in the style of Prof. Cannady's hand drawn site plan. Your design idea for the plan should resolve the Couryard House Program found at the end of this syllabus. One square is for the garage and the other four squares are conditioned space – yellow trace*

Jan 21: *Exercise 4* – Portals - Select and analyze through sketches and anthropic field measurements a formal portal (perhaps an arched front entry to a building other than Lovett Hall)

Jan 21: *Assignment 4* – Portals
Court House plan – yellow trace – (cut all yellow trace drawings to same sized sheets)

Jan 26: *Exercise 5* - Complete Portals-demonstrate value studies

Jan 26*: Assignment 5* People & Trees - select and emulate drawings of people and trees in the books at reserve reading in the library. Do several sketches of people and trees found on campus – yellow trace and/or sketch book

Continue Courtyard House plan – yellow trace
Jan 28: *Exercise 6* – Bays- Select and analyze through sketches and anthropic field measurements a formal bay of a building at Rice. Bays are typically formal compositions of openings between implied or expressed structural bays

Jan 28: *Assignment 6* – Bays
Court House plan – yellow trace

Feb 2: *Exercise 7* – Continue Bays
Court House elevations

Feb 2: *Assignment 7* – Complete Bays
Court House elevations / Values study, shade and shadows and people and trees – yellow trace

Feb 4: *Exercise 8* - Court House elevations / Values study, shade and shadows and people and trees – yellow trace

Feb 4*:* – *Assignment 8* - Court House one-point perspective – yellow trace

Feb 9: *Exercise 9* - Miesian Court House interior one-point perspective of main living area

Feb 9*: Assignment 9* - Court House one-point perspective – yellow trace

Feb 11: *Exercise 10* - Court House one-point perspective

Feb 11: *Assignment 10* - Court House one-point perspective

Feb 16*: Exercise 11* - Court House exterior two-point perspective

Feb 16: *Assignment 11 - Court* House two-point perspective

Feb 18: Court house two-point perspective

Feb 28: Remainder of semester - Final project drawings development – vellum sheets, layout of sheet alternatives and final composition set

Mar 31: Mid Term review

Apr 1: Mid Term Recess

Apr 7-28: Final project drawings on vellum

Apr 22: Last Day of Classes

April 28: Work Due: 9:25 AM- Students hand in their best 18" x 24" Newsprint, Yellow trace or 18" x 24" vellum sketches of each of the *Assignments* and six sheets on 18" x 24" Clearprint Vellum- Court House floor plan, cross section, principal elevation and one and two point perspectives.

Apr 28: Pinup Review (time and place TBA)

Materials and Equipment

22-7/8 in. x 25 7/8 in. Saunders Jumbo Hardboard Clipboard

News Print Pad -18 in. x 24 in.

Clearprint - Design Vellum - 18 in. x24 in.

(2) Bound Sketch Books, White Bond Paper, 8½ in. x 11 in.

Velum & Yellow Tracing Paper- 12 in. & 18in Rolls

Black Pentel Ink Pens- Medium ball - Water-soluble ink.

Assorted pencils, especially with soft, large heads and wooden barrels, as well as technical drawing pencils

Graphite Pencils – 2B, B, HB, F, H, 2H. You may go softer or harder if you feel it necessary.

Grease Pencils – assorted hardness.

Pastels – assorted colors.

Prismacolor Pencils – assorted colors.

Architectural & Engineering Scales

T-square, triangles & templates

Rolling Parallel Ruler & triangles

Pencil Lead Pointer

References:

Principles and Elements of Design
Prof. Carlisle M. Becker
(120 pg. course outline in CD format to be provided by Prof. Cannady)

The following books are located at Reserve Reading Desk, Fondren Library:

Mies in Berlin
Terence Riley & Barry Bergdoll
Museum of Modern Art, New York 2001

Mies in America
Edited by Phyllis Lambert

Canadian Centre for Architecture, Montreal
Whitney Museum of American Art 2001
New York

Frank Lloyd Wright-Drawings for a Living Architecture
Horizon Press, New York 1959

Pierre Koenig
James Steele & David Jenkins
Phaidon Press Ltd.
London N1 9PA 1988

The Concise Townscape
Gordon Cullen
Van Norstrand Reinhold Company.
New York London 1961

Architectural Drawing
Sherley W. Morgan
McGraw-Hill Book Company. Inc.
New York London Toronto 1950

of Dikes and Windmills
Peter Spier
Doubleday & Company, Inc
Garden City New York 1969

Ralph Rapson: Sixty Years of Modern Design
Rip Rapson, Jane King Hession & Bruce N. Wright
Afton Historical Society Press; Collectors edition 1999
Afton, MN

Steel, Brick and Glass Court House Project

House for a single person

Program (minimum inside dimensions)

Garage - 20’ x 24’ (240 sf) w/ Laundry/Mech. - 4’ x 24’ (96 sf)

Kitchen - 10’ x 18’ (180 sf)

Living/Dining – 24’ x 36’ (864 sf), 3’-6” (opening) fireplace

Study – 12’ x 15’ (180 sf), 12’ long x 9’ high bookshelves, sofa/bed

Powder Rm. w/ shower/ Closet – 6’ x 12’ (72 sf)

Foyer – 9’ x 12’ (108 sf)

Bedroom – 15’ x 24’ (360 sf), bath 6’ x 10’ (60 sf), Closet 12’ long x 9’ high ((24 sf)

Each student selects four contiguous 24’ x 24’ grids to design layout of the conditioned interior spaces plus a fifth 24’ x 24’ grid for the garage. A 24’ x 24’ square has 576 sf. Four squares equals 2304 sf.